PotENCIAR series UC

Multiconductor

LISTED

600 Volt	Cu 14 up to 10 AWG	THW-2	UL 1277

Control, signalling, measuring and protective equipment; electric controls of industrial installations. Installed in aerial trays, gutters or conduits, under roof or ladder under roof, buried in ducts or directly buried. Manufactured in compliance with the National Electrical Code ANSI/NFPA 70 of the US and the National Electrical Code NOM-001 SEDE, Mexico.

Fire-retardant

Mineral oil resistant

UV resistant

Industrial applications

NEC cod

Tray cable

FEATURES

Temperature rating: 90°C (Operating) – 160°C (Short-Circuit)
Temperature rating: 600 Volt A.C.
Construction requirements: As per UL 1277
Conductor requirements: As per ASTM B8
Conductor: Annealed electrolytic copper conductor, class B stranding
Insulation: PVC type THW-2
Sheath: Flame retardant PVC
Fire requirements: As per UL 1685
Outdoors requirements: As per UL 2556 (UV rays)
NEC Code (NFPA 70): Art. 336 TC –Art. 501 classified areas CL1 Div.2 y Cl2 Div.2

IDENTIFICATION

	Standard	
	Sheath	Conductors
Multiconductor	●	● alphanumeric identification

INSTALLATION

Installation temperature *Over conductors* *Minimum bend radius*

BUILD VARIANTS

The information provided corresponds to the standard version. Upon request, we can supply cables with different alternatives of identification, cable flexibility, or also including additional shield for suitable electromagnetic protection.

POTENCIAR series UC

Multiconductor

DIMENSIONS & WEIGHT

Cable formation N° Cond. x gauge AWG	External diameter mm	Weight kg/km	Code
2x14	9	122	UC 0214
3x14	9.5	148	UC 0314
4x14	10.4	180	UC 0414
5x14	11.4	214	UC 0514
7x14	12.4	277	UC 0714
10x14	16.3	387	UC 1014
12x14	16.8	447	UC 1214
14x14	18	512	UC 1414
16x14	19	575	UC 1614
19x14	20	670	UC 1914
21x14	22.1	784	UC 2114
24x14	24.1	888	UC 2414
27x14	24.6	978	UC 2714
30x14	25.8	1074	UC 3014
32x14	26.7	1141	UC 3214
37x14	27.8	1298	UC 3714
48x14	31.3	1645	UC 4814
2x12	10	161	UC 0212
3x12	10.6	199	UC 0312
4x12	11.6	245	UC 0412
5x12	12.7	292	UC 0512
7x12	14.6	408	UC 0712
10x12	18.2	531	UC 1012
12x12	18.8	618	UC 1212
14x12	20.1	710	UC 1412
16x12	22.3	851	UC 1612
19x12	23.4	990	UC 1912
21x12	24.7	1085	UC 2112
24x12	26.9	1231	UC 2412
27x12	27.5	1361	UC 2712
30x12	28.9	1499	UC 3012
32x12	30	1593	UC 3212
37x12	31.1	1819	UC 3712
48x12	35.2	2317	UC 4812
2x10	11.2	220	UC 0210
3x10	11.9	276	UC 0310
4x10	13.1	343	UC 0410
5x10	15.1	437	UC 0510
7x10	16.4	573	UC 0710
10x10	20.6	752	UC 1010
12x10	22.2	931	UC 1210
14x10	23.8	1070	UC 1410
16x10	25.1	1205	UC 1610
19x10	26.5	1410	UC 1910
21x10	27.9	1548	UC 2110

These specifications are provided for illustrative purposes, and may be modified without prior notice.

Cable formation N° Cond. x gauge AWG	External diameter mm	Weight kg/km	Code
24x10	30.5	1758	UC 2410
27x10	31.2	1951	UC 2710
30x10	32.8	2152	UC 3010
32x10	34	2289	UC 3210
37x10	35.4	2623	UC 3710
48x10	40.1	3354	UC 4810

ELECTRICAL CHARACTERISTICS

Calibre AWG	Electrical resistance at 20°C in C.C. (Ohm/km)	Electrical resistance at 90°C in C.A. at 60Hz (Ohm/km)	Current-carrying capacity (1)						
			2x	4x	7x	10x	19x	30x	48x
14	8.79	11.21	25	20	17.5	12.5	12.5	11.3	8.8
12	5.54	7.06	30	24	21	15	15	13.5	10.5
10	3.48	4.44	40	32	28	20	20	18	14

(1) Current-carrying capacity of cables with up to three conductors, installed in ducts or directly buried, up to an ambient temperature of 30ºC, according to chart 310.15 (B)(16) of the NFPA 70. As from four-conductors, we've additionally applied the correction factor for more than three conductors from the chart 310.15 (B)(3)(a) of the NFPA70.